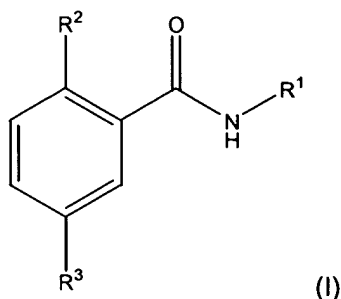


# CLAIMS

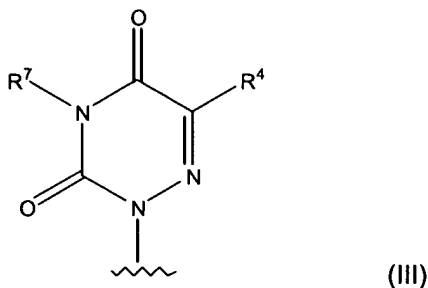
1. A compound of the formula



- wherein R<sup>1</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, optionally substituted by (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl, or (C<sub>1</sub>-C<sub>10</sub>)heteroaryl, wherein each of said (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl, or (C<sub>1</sub>-C<sub>10</sub>)heteroaryl are optionally substituted by one to three suitable moieties independently selected from the group consisting of hydroxy, halogen, CN-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, HO(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-NH(C=O)-, NH<sub>2</sub>(C=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, wherein said (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl is optionally substituted by one or more moieties selected from halogen, or (C<sub>1</sub>-C<sub>6</sub>)alkyl-;

- R<sup>2</sup> is hydrogen, halogen, -CN, and (C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein said (C<sub>1</sub>-C<sub>6</sub>)alkyl is optionally substituted by one to three suitable moieties, independently selected from the group consisting of halo, hydroxy, amino, -CN, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, -CF<sub>3</sub>, CF<sub>3</sub>O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-NH-, [(C<sub>1</sub>-C<sub>6</sub>)alkyl]<sub>2</sub>N-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(S=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(SO<sub>2</sub>)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-O-(C=O)-, formyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(C=O)-, and (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

R<sup>3</sup> is a nitrogen linked (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl of the formula:



- wherein R<sup>4</sup> is independently selected from the group of suitable substituents, such as hydrogen, halo, hydroxy, -CN, HO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl optionally substituted with one to three fluoro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy optionally substituted with one to three fluoro, HO<sub>2</sub>C-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-O-(C=O)-, R<sup>5</sup>R<sup>6</sup>N(O<sub>2</sub>S)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(O<sub>2</sub>S)-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-O<sub>2</sub>S-[(C<sub>1</sub>-C<sub>6</sub>)alkyl-N]-, R<sup>5</sup>R<sup>6</sup>N(C=O)-, R<sup>5</sup>R<sup>6</sup>N(CH<sub>2</sub>)<sub>m</sub>-, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>10</sub>)heteroaryl, (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl, (C<sub>6</sub>-C<sub>10</sub>)aryl-O-, (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl-O-, (C<sub>1</sub>-C<sub>10</sub>)heteroaryl-O- and (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl-O-; and

- R<sup>7</sup> is independently selected from the group of suitable substituents such as hydrogen and (C<sub>1</sub>-C<sub>6</sub>)alkyl optionally substituted with one to three halogens, hydroxy, -CN,

(C<sub>1</sub>-C<sub>6</sub>)alkoxy-, (C<sub>2</sub>-C<sub>6</sub>)alkenoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl-SO<sub>2</sub>-, NH<sub>2</sub>-, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>n</sub>-N-, ((C<sub>2</sub>-C<sub>6</sub>)alkenyl)<sub>n</sub>-N-, ((C<sub>2</sub>-C<sub>6</sub>)alkynyl)<sub>n</sub>-N-, NH<sub>2</sub>(C=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(C=O)N-, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>n</sub>-N-(C=O)-, (C<sub>2</sub>-C<sub>6</sub>)alkenyl-(C=O)N-, ((C<sub>2</sub>-C<sub>6</sub>)alkenyl)<sub>n</sub>-N-(C=O)-, (C<sub>2</sub>-C<sub>6</sub>)alkynyl-(C=O)N-, ((C<sub>2</sub>-C<sub>6</sub>)alkynyl)<sub>n</sub>-N-(C=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(C=O)-, (C<sub>2</sub>-C<sub>6</sub>)alkenyl-(C=O)-, (C<sub>2</sub>-C<sub>6</sub>)alkynyl-(C=O)-, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl-(C=O)-, ((C<sub>1</sub>-C<sub>10</sub>)heterocyclyl-(C=O)-, (C<sub>6</sub>-C<sub>10</sub>)aryl-(C=O), (C<sub>1</sub>-C<sub>10</sub>)heteroaryl-(C=O), (C<sub>1</sub>-C<sub>6</sub>)alkyl-(C=O)O-, (C<sub>2</sub>-C<sub>6</sub>)alkenyl-(C=O)O-, (C<sub>2</sub>-C<sub>6</sub>)alkynyl-(C=O)O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-O(C=O)-, (C<sub>2</sub>-C<sub>6</sub>)alkenyl-O-(C=O)-, (C<sub>2</sub>-C<sub>6</sub>)alkynyl-O-(C=O)-, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl, and (C<sub>1</sub>-C<sub>10</sub>)heteroaryl;

wherein R<sup>4</sup> and R<sup>7</sup> may each be optionally substituted on any aliphatic or aromatic carbon atom by one to three suitable moieties, independently selected from the group consisting of halo, hydroxy, amino, -CN, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, -CF<sub>3</sub>, CF<sub>3</sub>O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-NH-, [(C<sub>1</sub>-C<sub>6</sub>)alkyl]<sub>2</sub>-N-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(S=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(SO<sub>2</sub>)-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-O-(C=O)-, formyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-(C=O)-, and (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl;

R<sup>5</sup> and R<sup>6</sup> are each independently selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, HO-(C<sub>2</sub>-C<sub>6</sub>)alkyl and (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl, or R<sup>5</sup> and R<sup>6</sup> may optionally be taken together with the nitrogen atom to which they are attached to form a 3 to 8 membered heterocycle;

n is an integer from zero to two; and

m is an integer from one to two;

or the pharmaceutically acceptable salts or solvates or prodrugs thereof.

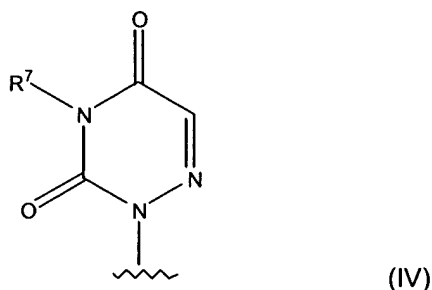
2. A compound of any of the preceding claims wherein R<sup>1</sup> is (C<sub>1</sub>-C<sub>4</sub>)alkyl, optionally substituted by (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl; wherein said (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl are optionally substituted by one to three suitable moieties independently selected from the group consisting of hydroxy, halogen, CN-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, HO(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-NH(C=O)-, NH<sub>2</sub>(C=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, wherein said (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl is optionally substituted by one or more moieties selected from halogen, or (C<sub>1</sub>-C<sub>6</sub>)alkyl-.

3. A compound of any of the preceding claims wherein R<sup>1</sup> is (C<sub>1</sub>-C<sub>4</sub>)alkyl, optionally substituted by (C<sub>6</sub>-C<sub>10</sub>)aryl; wherein said (C<sub>1</sub>-C<sub>4</sub>)alkyl or (C<sub>6</sub>-C<sub>10</sub>)aryl are optionally substituted by one to three suitable moieties independently selected from the group consisting of hydroxy, halogen, CN-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, HO(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-NH(C=O)-, NH<sub>2</sub>(C=O)-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, wherein said (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl is optionally substituted by one or more moieties selected from halogen, or (C<sub>1</sub>-C<sub>6</sub>)alkyl-.

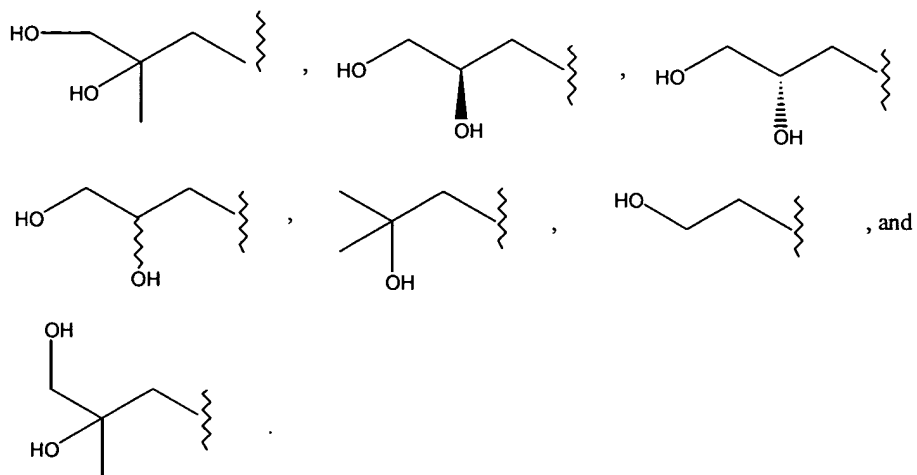
4. A compound of any of the preceding claims wherein R<sup>2</sup> is chloro, methyl or ethyl.

5. A compound of any of the preceding claims wherein R<sup>3</sup> is a nitrogen linked (C<sub>1</sub>-C<sub>10</sub>)heterocyclyl of formula (III), wherein R<sup>4</sup> is hydrogen and R<sup>7</sup> is independently selected from the group of suitable substituents such as hydrogen and (C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein said (C<sub>1</sub>-

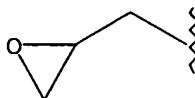
- $C_6$ )alkyl is optionally substituted with one to three substituents independently selected from halo, hydroxy, -CN,  $(C_1-C_6)$ alkoxy-,  $(C_2-C_6)$ alkenoxy,  $(C_1-C_6)$ alkyl-SO<sub>2</sub>-, NH<sub>2</sub>-,  $(C_1-C_6)$ alkyl)<sub>n</sub>-N-,  $((C_2-C_6)$ alkenyl)<sub>n</sub>-N-,  $((C_2-C_6)$ alkynyl)<sub>n</sub>-N-, NH<sub>2</sub>(C=O)-,  $(C_1-C_6)$ alkyl-(C=O)N-,  $((C_1-C_6)$ alkyl)<sub>n</sub>-N-(C=O)-,  $(C_2-C_6)$ alkenyl-(C=O)N-,  $((C_2-C_6)$ alkenyl)<sub>n</sub>-N-(C=O)-,  $(C_2-C_6)$ alkynyl-(C=O)N-,  $((C_2-C_6)$ alkynyl)<sub>n</sub>-N-(C=O)-,  $(C_1-C_6)$ alkyl-(C=O)-,  $(C_2-C_6)$ alkenyl-(C=O)-,  $(C_2-C_6)$ alkynyl-(C=O)-,  $(C_3-C_{10})$ cycloalkyl-(C=O)-,  $((C_1-C_{10})$ heterocyclyl-(C=O)-,  $(C_6-C_{10})$ aryl-(C=O),  $(C_1-C_{10})$ heteroaryl-(C=O),  $(C_1-C_6)$ alkyl-(C=O)O-,  $(C_2-C_6)$ alkenyl-(C=O)O-,  $(C_2-C_6)$ alkynyl-(C=O)O-,  $(C_1-C_6)$ alkyl-O(C=O)-,  $(C_2-C_6)$ alkenyl-O-(C=O)-,  $(C_2-C_6)$ alkynyl-O-(C=O)-,  $(C_3-C_{10})$ cycloalkyl,  $(C_6-C_{10})$ aryl,  $(C_1-C_{10})$ heterocyclyl, and  $(C_1-C_{10})$ heteroaryl; wherein R<sup>7</sup> may optionally be substituted on any ring aliphatic or aromatic carbon atom by one to three suitable moieties, independently selected from the group consisting of halo, hydroxy, amino, -CN,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ alkoxy, -CF<sub>3</sub>, CF<sub>3</sub>O-,  $(C_1-C_4)$ alkyl-NH-,  $[(C_1-C_4)$ alkyl]<sub>2</sub>-N-,  $(C_1-C_4)$ alkyl-S-,  $(C_1-C_4)$ alkyl-(S=O)-,  $(C_1-C_4)$ alkyl-(SO<sub>2</sub>)-,  $(C_1-C_4)$ alkyl-O-(C=O)-, formyl,  $(C_1-C_4)$ alkyl-(C=O)-, and  $(C_3-C_6)$ cycloalkyl.
6. A compound of any of the preceding claims wherein R<sup>7</sup> is hydrogen.
7. A compound of any of the preceding claims wherein R<sup>3</sup> is a nitrogen linked  $(C_1-C_{10})$ heterocyclyl of formula (IV):



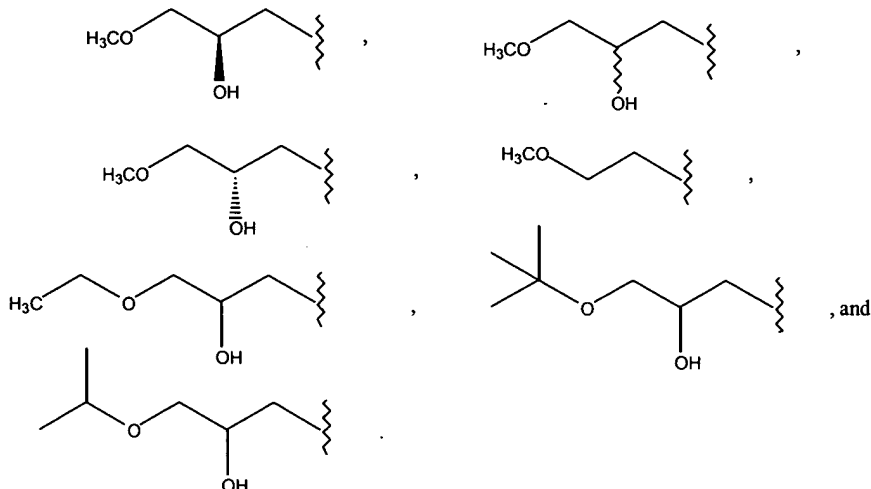
and R<sup>7</sup> is selected from the group consisting of:



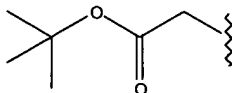
8. A compound of any of the preceding claims wherein R<sup>3</sup> is a nitrogen linked  $(C_1-C_{10})$ heterocyclyl of formula (IV), and R<sup>7</sup> is



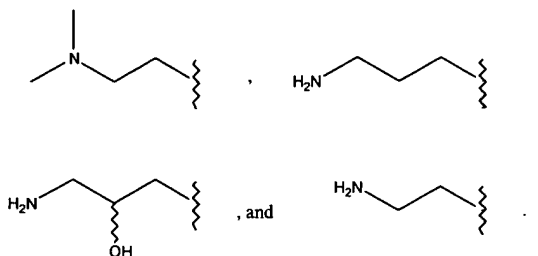
9. A compound of any of the preceding claims wherein  $R^3$  is a nitrogen linked  $(C_1-C_{10})$ heterocyclyl of formula (IV), and  $R^7$  is selected from the group consisting of:



5 10. A compound of any of the preceding claims wherein  $R^3$  is a nitrogen linked  $(C_1-C_{10})$ heterocyclyl of formula (IV), and  $R^7$  is

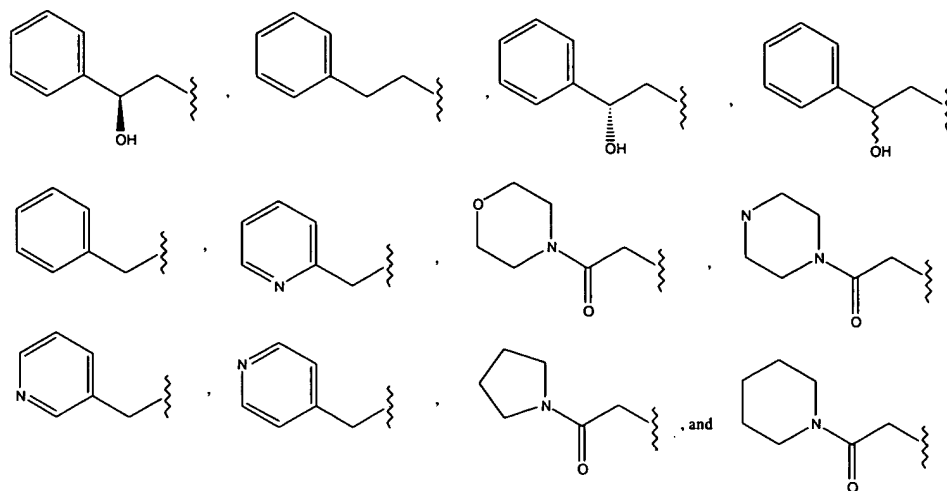


11. A compound of any of the preceding claims wherein  $R^3$  is a nitrogen linked  $(C_1-C_{10})$ heterocyclyl of formula (IV), and  $R^7$  is selected from:



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12. A compound of any of the preceding claims wherein  $R^3$  is a nitrogen linked  $(C_1-C_{10})$ heterocyclyl of formula (IV), and  $R^7$  is selected from:



13. A compound selected from the group consisting of:

2-Chloro-N-(1-hydroxy-cyclohexylmethyl)-5-[4-(2-hydroxy-3-methoxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide;

5 2-Chloro-5-[4-(2,3-dihydroxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxy-cyclohexylmethyl)-benzamide;

2-Chloro-N-(1-hydroxy-cycloheptylmethyl)-5-[4-(2-hydroxy-ethyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide;

10 2-Chloro-5-[4-(2,3-dihydroxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxy-cycloheptylmethyl)-benzamide;

2-Chloro-5-(4-cyanomethyl-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl)-N-(1-hydroxy-cycloheptylmethyl)-benzamide;

2-Chloro-5-[4-(2-hydroxy-3-methoxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxymethyl-cycloheptylmethyl)-benzamide;

15 2-Chloro-5-[4-(2-cyano-ethyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxy-cycloheptylmethyl)-benzamide;

N-(1-Hydroxy-cycloheptylmethyl)-5-[4-(2-hydroxy-ethyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-2-methyl-benzamide;

20 2-Chloro-5-[4-(2,3-dihydroxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxy-cyclohexylmethyl)-benzamide;

2-Chloro-N-(1-hydroxy-cycloheptylmethyl)-5-[4-(2-hydroxy-2-methyl-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide;

2-Chloro-N-(1-hydroxy-cyclooctylmethyl)-5-[4-(2-hydroxy-3-methoxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide;

25 2-Chloro-N-(1-hydroxy-cycloheptylmethyl)-5-[4-(2-hydroxy-2-phenyl-ethyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide;

2-Chloro-5-[3,5-dioxo-4-(3,3,3-trifluoro-2-hydroxy-propyl)-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxy-cycloheptylmethyl)-benzamide;

2-Chloro-5-[4-(2-hydroxy-3-methoxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(2-hydroxy-2-phenyl-ethyl)-benzamide;

5 5-(4-Carbamoylmethyl-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl)-2-chloro-N-(1-hydroxy-cycloheptylmethyl)-benzamide;

2-Chloro-N-(1-hydroxy-cycloheptylmethyl)-5-[4-(2-methoxy-ethyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide;

10 5-[4-(2,3-Dihydroxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-N-(1-hydroxy-cycloheptylmethyl)-2-methyl-benzamide;

5-[4-(3-Amino-2-hydroxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-2-chloro-N-(1-hydroxy-cycloheptylmethyl)-benzamide; and

2-Chloro-N-(1-hydroxy-cycloheptylmethyl)-5-[4-(2-hydroxy-3-methoxy-propyl)-3,5-dioxo-4,5-dihydro-3H-[1,2,4]triazin-2-yl]-benzamide.

15 14. A pharmaceutical composition for treating a IL-1 mediated disease in a mammal in need thereof, comprising a therapeutically effective amount of a compound according to claim 1 or a salt or prodrug thereof, and a pharmaceutically acceptable carrier or diluent.

20 15. A method of treating an IL-1 mediated disease in a mammal in need thereof, comprising administering to said mammal a therapeutically effective amount of a compound according to claim 1 or a salt or prodrug thereof.